Aero-Fit Business Case

```
In [1]: # Importing the libraries
          import pandas as pd
          import numpy as np
In [2]: # Loading the dataset
         data = pd.read_csv("aerofit_treadmill.csv")
In [3]: # Checking the Data
         data.head(10)
            Product Age Gender Education MaritalStatus Usage Fitness Income
Out[3]:
                                                                                   Miles
         0
              KP281
                       18
                                          14
                                                                            29562
                             Male
                                                     Single
                                                                3
                                                                        4
                                                                                     112
              KP281
                                                                2
         1
                       19
                             Male
                                          15
                                                     Single
                                                                        3
                                                                            31836
                                                                                      75
         2
              KP281
                       19
                           Female
                                          14
                                                  Partnered
                                                                4
                                                                            30699
                                                                                      66
                                                                        3
         3
              KP281
                                                                3
                                                                            32973
                       19
                             Male
                                          12
                                                     Single
                                                                        3
                                                                                      85
         4
              KP281
                       20
                             Male
                                          13
                                                  Partnered
                                                                4
                                                                        2
                                                                            35247
                                                                                      47
         5
              KP281
                       20
                                          14
                                                                3
                                                                        3
                                                                            32973
                           Female
                                                  Partnered
                                                                                      66
         6
              KP281
                       21
                           Female
                                          14
                                                  Partnered
                                                                3
                                                                        3
                                                                            35247
                                                                                      75
         7
              KP281
                       21
                             Male
                                          13
                                                                3
                                                                        3
                                                                            32973
                                                                                      85
                                                     Single
              KP281
                       21
                             Male
                                          15
                                                     Single
                                                                5
                                                                        4
                                                                            35247
                                                                                     141
              KP281
                       21
                           Female
                                          15
                                                  Partnered
                                                                            37521
                                                                                      85
In [4]: # Shape of the dataset
         data.shape
         (180, 9)
Out[4]:
In [5]: # Checking for the basic info
          data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 180 entries, 0 to 179
Data columns (total 9 columns):
```

#	Column	Non-Null Count	Dtype
0	Product	180 non-null	object
1	Age	180 non-null	int64
2	Gender	180 non-null	object
3	Education	180 non-null	int64
4	MaritalStatus	180 non-null	object
5	Usage	180 non-null	int64
6	Fitness	180 non-null	int64
7	Income	180 non-null	int64
8	Miles	180 non-null	int64

dtypes: int64(6), object(3)
memory usage: 12.8+ KB

0

In [6]: # Checking for Datatypes

data.dtypes

Out[6]:

Product object

Age int64

Gender object

Education int64

MaritalStatus object

Usage int64

Fitness int64

Income int64

Miles int64

dtype: object

In [7]: # Checking for NULL Values

data.isna().sum()

```
        Out[7]:
        0

        Product
        0

        Age
        0

        Gender
        0

        Education
        0

        MaritalStatus
        0

        Usage
        0

        Fitness
        0

        Income
        0

        Miles
        0
```

dtype: int64

```
In [8]: # Checking for Unique value counts
         data.nunique()
Out[8]:
                        0
                        3
              Product
                 Age
                       32
               Gender
                        2
            Education
                        8
         MaritalStatus
                        2
                Usage
                        6
                        5
               Fitness
               Income 62
                Miles 37
```

dtype: int64

Checking for Uniques values for each column

```
In [9]: data["Product"].unique()
Out[9]: array(['KP281', 'KP481', 'KP781'], dtype=object)

In [10]: data["Age"].unique()
Out[10]: array([18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 46, 47, 50, 45, 48, 42])

In [11]: data["Education"].unique()
Out[11]: array([14, 15, 12, 13, 16, 18, 20, 21])
```

```
data["MaritalStatus"].unique()
In [12]:
         array(['Single', 'Partnered'], dtype=object)
Out[12]:
         data["Usage"].unique()
In [13]:
         array([3, 2, 4, 5, 6, 7])
Out[13]:
In [14]:
         data["Fitness"].unique()
         array([4, 3, 2, 1, 5])
Out[14]:
         data["Income"].unique()
In [15]:
                                30699, 32973, 35247,
                                                                        38658.
         array([ 29562, 31836,
                                                        37521, 36384,
Out[15]:
                 40932, 34110,
                                39795, 42069, 44343,
                                                        45480, 46617,
                                                                       48891,
                 53439, 43206,
                                52302, 51165,
                                                50028,
                                                        54576,
                                                               68220,
                                                                        55713,
                 60261, 67083,
                                56850, 59124, 61398,
                                                        57987, 64809,
                                                                       47754,
                 65220, 62535, 48658, 54781, 48556,
                                                        58516, 53536,
                                                                       61006,
                 57271, 52291, 49801, 62251, 64741,
                                                        70966, 75946, 74701,
                 69721, 83416, 88396, 90886, 92131,
                                                        77191, 52290, 85906,
                103336, 99601, 89641, 95866, 104581,
                                                        955081)
         data["Miles"].unique()
In [16]:
         array([112, 75, 66, 85, 47, 141, 103, 94, 113, 38, 188, 56, 132,
Out[16]:
                          53, 106, 95, 212, 42, 127, 74, 170, 21, 120, 200,
                169, 64,
                140, 100, 80, 160, 180, 240, 150, 300, 280, 260, 360])
         data["Product"].value_counts()
In [17]:
Out[17]:
                 count
         Product
          KP281
                    80
          KP481
                    60
          KP781
                    40
        dtype: int64
        data["Age"].value counts()
In [18]:
```

Out[18]: count

	count
Age	
25	25
23	18
24	12
26	12
28	9
35	8
33	8
30	7
38	7
21	7
22	7
27	7
31	6
34	6
29	6
20	5
40	5
32	4
19	4
48	2
37	2
45	2
47	2
46	1
50	1
18	1
44	1
43	1
41	1
39	1
36	1
42	1

dtype: int64

```
data["Gender"].value_counts()
In [19]:
Out[19]:
                  count
          Gender
                    104
            Male
          Female
                     76
         dtype: int64
          data["Education"].value_counts()
In [20]:
Out[20]:
                     count
          Education
                        85
                 16
                 14
                        55
                 18
                        23
                 15
                        5
                        5
                 13
                 12
                        3
                 21
                        3
                 20
         dtype: int64
          data["MaritalStatus"].value_counts()
In [21]:
Out[21]:
                        count
          MaritalStatus
             Partnered
                          107
                Single
                          73
         dtype: int64
          data["Usage"].value_counts()
In [22]:
```

Out[22]: count

Usage			
3	69		
4	52		
2	33		
5	17		
6	7		
7	2		

dtype: int64

In [23]: data["Fitness"].value_counts()

Out[23]: count

Fitness 3 97 5 31 2 26 24 1 2

dtype: int64

data.describe() In [24]:

Out[24]:

	Age	Education	Usage	Fitness	Income	Miles
count	180.000000	180.000000	180.000000	180.000000	180.000000	180.000000
mean	28.788889	15.572222	3.455556	3.311111	53719.577778	103.194444
std	6.943498	1.617055	1.084797	0.958869	16506.684226	51.863605
min	18.000000	12.000000	2.000000	1.000000	29562.000000	21.000000
25%	24.000000	14.000000	3.000000	3.000000	44058.750000	66.000000
50%	26.000000	16.000000	3.000000	3.000000	50596.500000	94.000000
75%	33.000000	16.000000	4.000000	4.000000	58668.000000	114.750000
max	50.000000	21.000000	7.000000	5.000000	104581.000000	360.000000

```
In [25]: # Importing the required Libraries
         import matplotlib.pyplot as plt
         import seaborn as sns
```

In [26]: #Replacing the String values to Numeric to create a correlation. df = data.copy()

```
df["Product"].replace({"KP281" : 0 , "KP481" : 1 , "KP781" : 2}, inplace = True)
df["Gender"].replace({"Male" : 1 , "Female" : 0}, inplace = True)
df["MaritalStatus"].replace({"Single" : 0 , "Partnered" : 1}, inplace = True)
df.head()
```

Out[26]:		Product	Age	Gender	Education	MaritalStatus	Usage	Fitness	Income	Miles
	0	0	18	1	14	0	3	4	29562	112
	1	0	19	1	15	0	2	3	31836	75
	2	0	19	0	14	1	4	3	30699	66
	3	0	19	1	12	0	3	3	32973	85
	4	0	20	1	13	1	4	2	35247	47

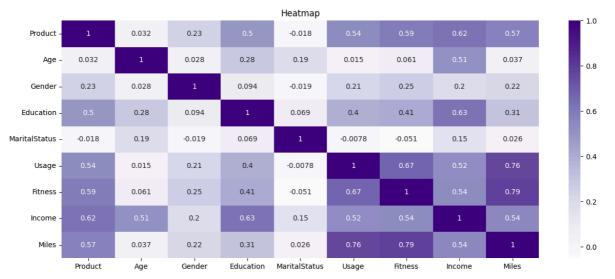
```
In [27]: df.corr()
```

_			
/ Ni	11	1) /	
\cup	ич	4/	

	Product	Age	Gender	Education	MaritalStatus	Usage	Fitness	Inco
Product	1.000000	0.032225	0.230653	0.495018	-0.017602	0.537447	0.594883	0.624
Age	0.032225	1.000000	0.027544	0.280496	0.192152	0.015064	0.061105	0.513
Gender	0.230653	0.027544	1.000000	0.094089	-0.018836	0.214424	0.254609	0.202
Education	0.495018	0.280496	0.094089	1.000000	0.068569	0.395155	0.410581	0.625
MaritalStatus	-0.017602	0.192152	-0.018836	0.068569	1.000000	-0.007786	-0.050751	0.150
Usage	0.537447	0.015064	0.214424	0.395155	-0.007786	1.000000	0.668606	0.519
Fitness	0.594883	0.061105	0.254609	0.410581	-0.050751	0.668606	1.000000	0.535
Income	0.624168	0.513414	0.202053	0.625827	0.150293	0.519537	0.535005	1.000
Miles	0.571596	0.036618	0.217869	0.307284	0.025639	0.759130	0.785702	0.543

```
In [28]: plt.figure(figsize=(15,6))
    sns.heatmap(df.corr(), cmap = "Purples", annot=True)

plt.title("Heatmap")
    plt.show()
```



Insight:

- The product bought has a higher correlation with income, fitness, miles walked and usage.
- Age has a higher correlation with income which obvious that as the age increases income can increase too.
- Gender has comparitively low correlation with Fitness, Product, Miles and Usage.
- Education is highly correlated with Income which is as expected followed by the product bought.
- Marital Status doesnt exhibit much correlation with any of the factors considered.
- Usage is very much highly correlated with Miles walked, usage, Product bought and income.
- Fitness has greater relation with Miles, Usage, Product and Income.

```
In [ ]: # Analysing the Percentage of product purchased

code = data.groupby(data["Product"])["Product"].count()
len = data.shape[0]
pct = (code / len)*100

df = pd.DataFrame(pct)
df
```

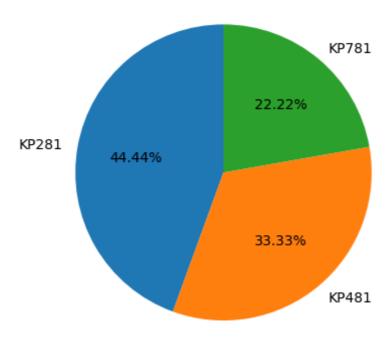
Out[]: Product

KP281 44.444444 KP481 33.333333 KP781 22.222222

```
autopct = "%.2f%%")

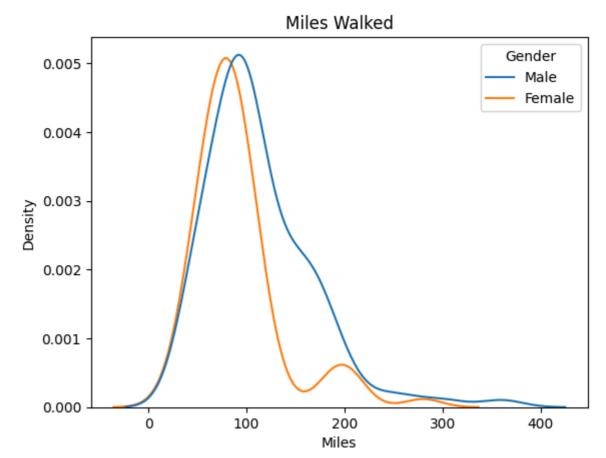
plt.title("Product Portfolio")
plt.show()
```

Product Portfolio



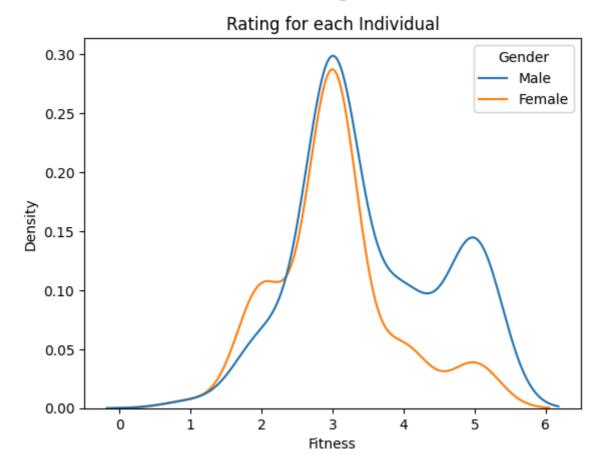
Insight:

- From the above pie chart its clear that 22.22% people bought KP781, 33.33% bought KP481, 44.44% bought KP281.
- Hence KP281 is the most purchased model.



Insight:

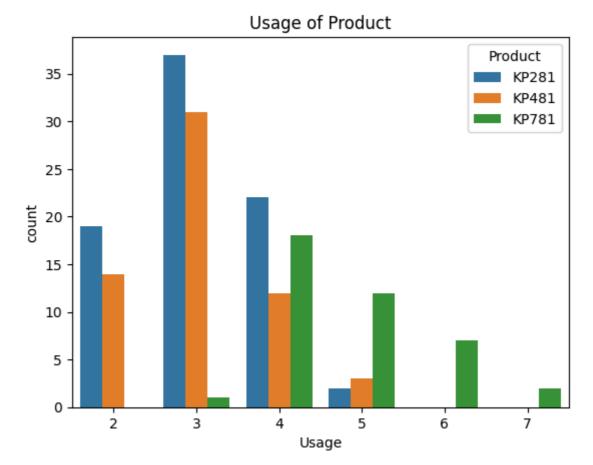
• From the line plot its clear that most of Male and Female has walking mile betweeen 85 to 100.



Insight:

• From the above graph we can analyze that majority of Male and Female rated themselves as 3.

```
In [ ]: # Analysing the average usage of the product
sns.countplot(x = "Usage" ,hue="Product",data=data)
plt.title("Usage of Product")
plt.show()
```



Insight:

• Compared to all the 3 products the most used product is KP281 where an average of 3 is the most used number of times.

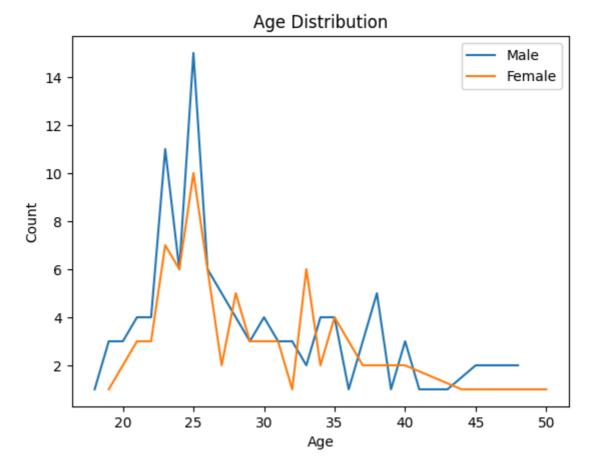
```
In []: male = data[data["Gender"]=="Male"]
    female = data[data["Gender"]=="Female"]

m_age = male["Age"] .value_counts() .sort_index()
    f_age = female["Age"].value_counts().sort_index()

sns.lineplot(x = m_age.index , y = m_age , label = "Male")
    sns.lineplot(x = f_age.index , y = f_age , label = "Female")

plt.xlabel("Age")
    plt.ylabel("Count")

plt.title("Age Distribution")
    plt.show()
```



Insight:

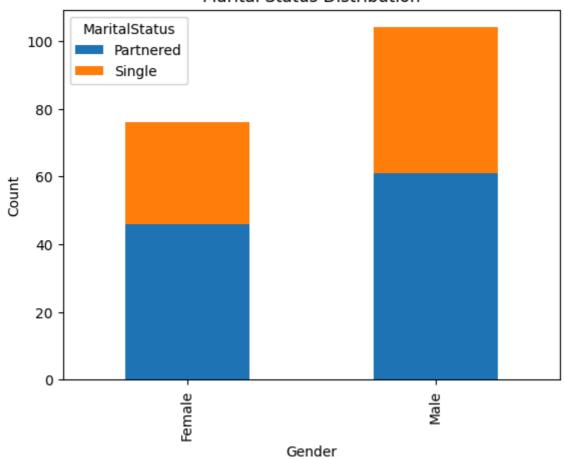
• It is very eveident that male and female are of variable age where most of the male and female are of age 25.

```
In [ ]: plt.figure(figsize=(3,8))
    plot = pd.crosstab(index = data["Gender"] , columns = data["MaritalStatus"])
    plot.plot(kind = "bar" , stacked = True)
    plt.xlabel("Gender")
    plt.ylabel("Count")

plt.title("Marital Status Distribution")
    plt.show()
```

<Figure size 300x800 with 0 Axes>

Marital Status Distribution

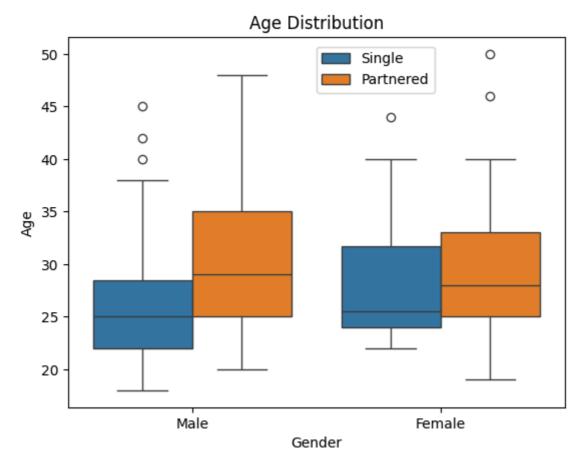


Insight:

• From the above graph compared to female more male are parterned and single.

```
In [ ]: sns.boxplot(y="Age",x="Gender" ,hue="MaritalStatus", data = data)
plt.legend(loc=(0.5,0.85))

plt.title("Age Distribution")
plt.show()
```

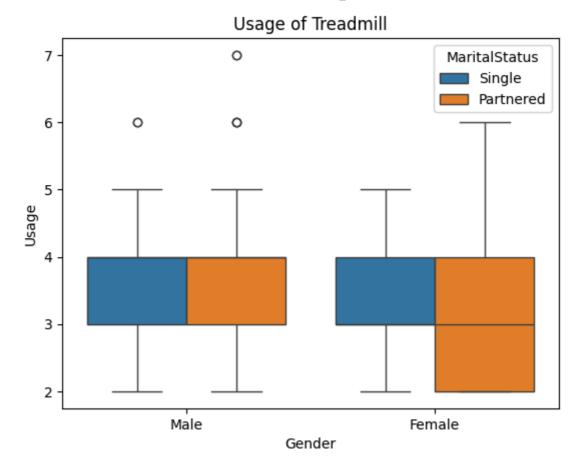


Insight:

- In male the median age of Single is around 25 with 3 outliers whereas for parterned it is around 30.
- In female the median age for singles is around 25 with 1 outlier whereas parterned is around 27 with 2 outliers.

```
In [ ]: sns.boxplot(y="Usage",x="Gender" ,hue="MaritalStatus", data = data)

plt.title("Usage of Treadmill")
plt.show()
```

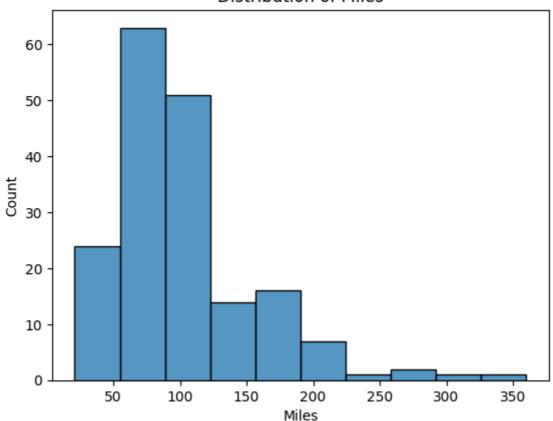


Insight:

- In male the median usage for both Single and parterned is around 4 with 1 and 2 outlier respectively.
- In female the median usage for both singles and parterned is around 3.

```
In [ ]: sns.histplot(data["Miles"],bins=10)
    plt.title("Distribution of Miles")
    plt.show()
```

Distribution of Miles



Insight:

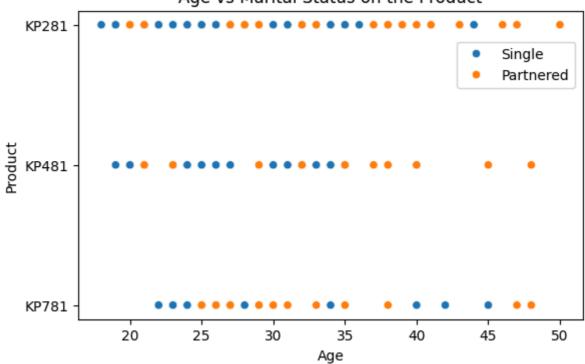
• From the above graph its clear that most of the people walked between 50 and 100 miles.

```
In [ ]: plt.figure(figsize = (6.5,4))

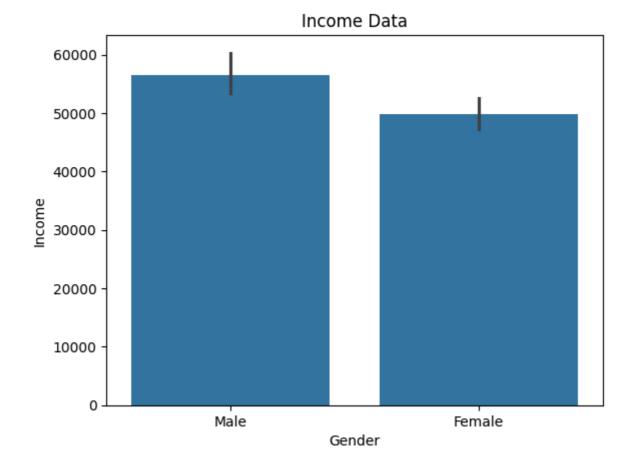
sns.scatterplot(data = data , y= "Product" , hue = "MaritalStatus", x = "Age")
plt.legend(loc=(0.75,0.75))

plt.title("Age vs Marital Status on the Product")
plt.show()
```





```
In [ ]: sns.barplot(data=data , x = "Gender" , y = "Income" , estimator = np.mean)
    plt.title("Income Data")
    plt.show()
```



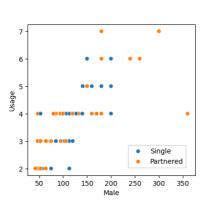
```
In [ ]: male = data[data["Gender"]=="Male"]
    female = data[data["Gender"]=="Female"]

plt.figure(figsize = (15,4)).suptitle("Usage vs Miles")
```

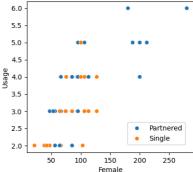
```
plt.subplot(1,3,1)
sns.scatterplot(data=male , x="Miles" , y ="Usage",hue="MaritalStatus")
plt.xlabel("Male")
plt.legend(loc=(0.6,0.05))

plt.subplot(1,3,3)
sns.scatterplot(data=female , x="Miles" , y ="Usage",hue="MaritalStatus")
plt.xlabel("Female")
plt.legend(loc=(0.6,0.05))
plt.show()
```

Usage vs Miles



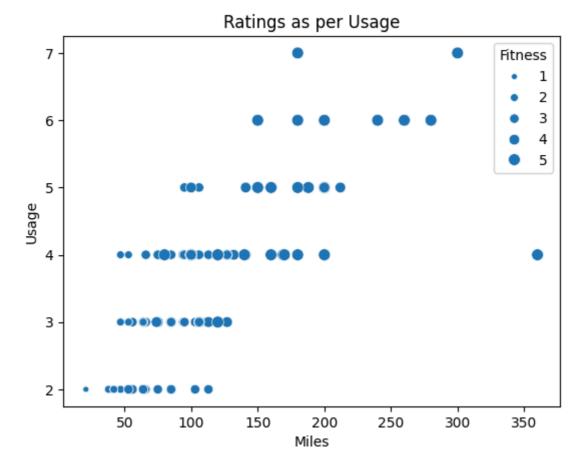
6.0 -5.5 -



Insight:

- In male more miles is walked by parterned men whereas most of the men have walked in the range of 50 to 200 miles.
- In female most miles is walked by single women whereas most female walked in the range of 50 to 150 miles.

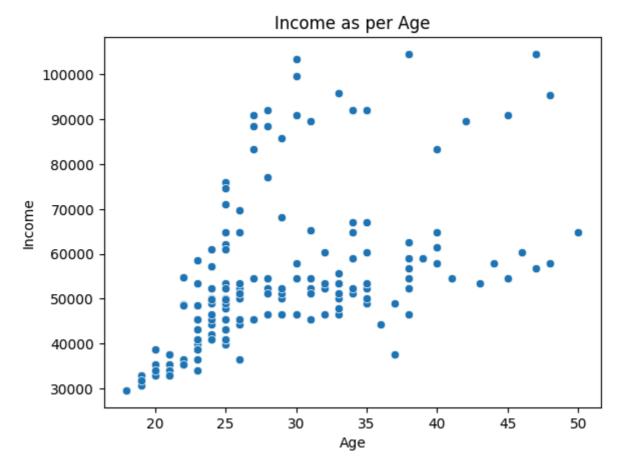
```
In [ ]: sns.scatterplot(data = data , x="Miles" , y="Usage" , size ="Fitness")
    plt.title("Ratings as per Usage")
    plt.show()
```



Insight:

• From the above graph its clear that more the usage is more the miles coved hence more the rating given.

```
In [ ]: sns.scatterplot(data = data , x="Age" , y="Income")
    plt.title("Income as per Age")
    plt.show()
```

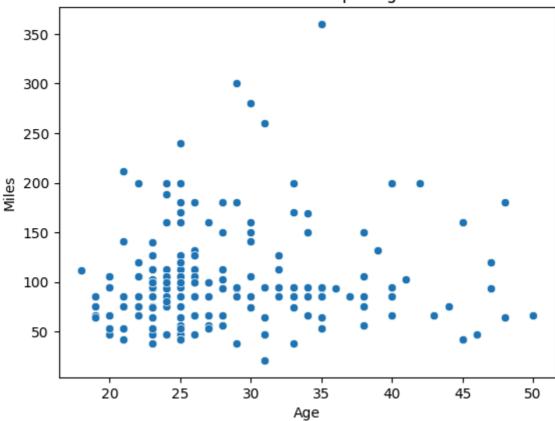


Insight:

• It is clear that Income is directly proportional to the Age, as the age increases the income also increases.

```
In [ ]: sns.scatterplot(data = data , x="Age" , y="Miles")
    plt.title("Miles walked as per Age")
    plt.show()
```



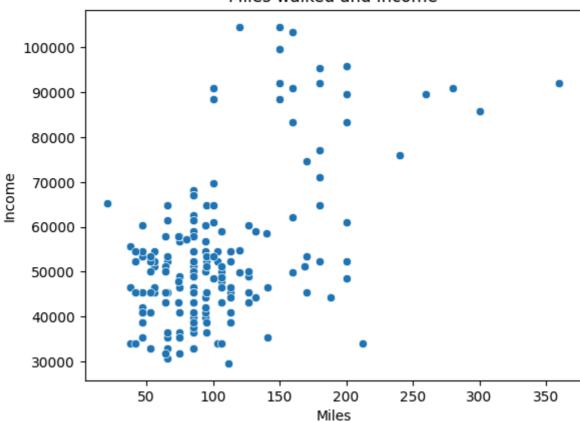


Insight:

• People in lower age has greater miles of walk where as the older people are having less miles of walk which needs to be improved for their better health.

```
In [ ]: sns.scatterplot(data = data , x="Miles" , y="Income")
    plt.title("Miles walked and Income")
    plt.show()
```

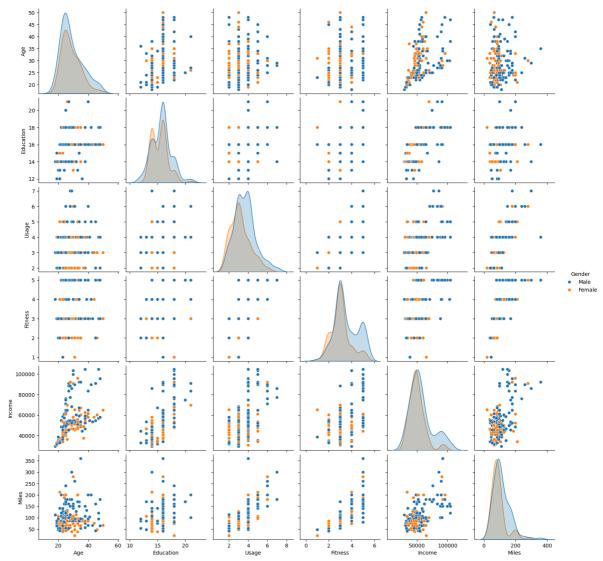
Miles walked and Income



Insight:

• People having greater salary have walked more miles compared to the people with lower income.

```
In [ ]: sns.pairplot(data = data , hue = "Gender")
   plt.show()
```



Probability and Statistical Data

```
In []: #Probability that a male customer bought a treadmill

male = data.loc[data["Gender"]=="Male"]
    prob_m = male.shape[0]/data.shape[0]
    print(f"Probability of a male buying the product is {prob_m}")
    prob_f = 1 - prob_m
    print(f"Probability of a female buying the product is {prob_f}")
```

Out[]: Product KP281 KP481 KP781 All

Gender				
Female	40	29	7	76
Male	40	31	33	104
All	80	60	40	180

Male

- Probability of Male buying KP281 = P(Male | KP281) = 40/80 = 0.5
- Probability of Male buying KP481 = P(Male | KP481) = 31/60 = 0.516
- Probability of Male buying KP781 = P(Male | KP781) = 33/40 = 0.825

Female

- Probability of Female buying KP281 = P(Female | KP281) = 40/80 = 0.5
- Probability of Female buying KP481 = P(Female | KP481) = 29/60 = 0.483
- Probability of Female buying KP781 = P(Female | KP781) = 7/40 = 0.175

Out[]: Product KP281 KP481 KP781 All

MaritalStatus

Partnered	21	21	19 61	
Single	19	10	14 43	
All	40	31	33 104	

Out[]: Product KP281 KP481 KP781 All

MaritalStatus

```
        Partnered
        27
        15
        4
        46

        Single
        13
        14
        3
        30

        All
        40
        29
        7
        76
```

```
In [ ]: #Analysing the Age Column

age = data["Age"]
age.describe()
```

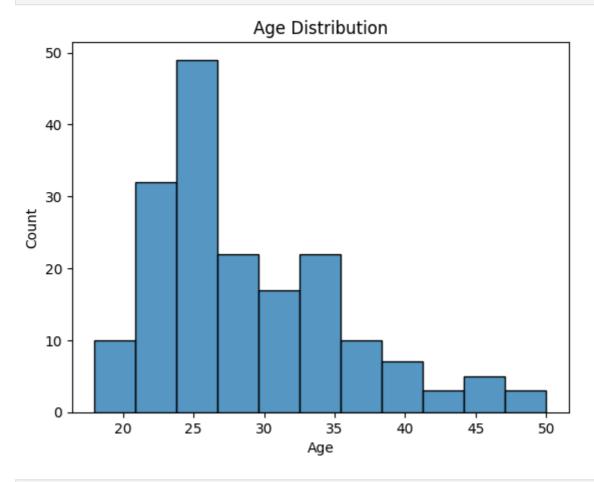
```
Age
count 180.000000
        28.788889
mean
         6.943498
  std
        18.000000
 min
        24.000000
 25%
 50%
        26.000000
 75%
        33.000000
        50.000000
 max
```

Out[]:

dtype: float64

```
In [ ]: sns.histplot(age)

plt.title("Age Distribution")
   plt.show()
```



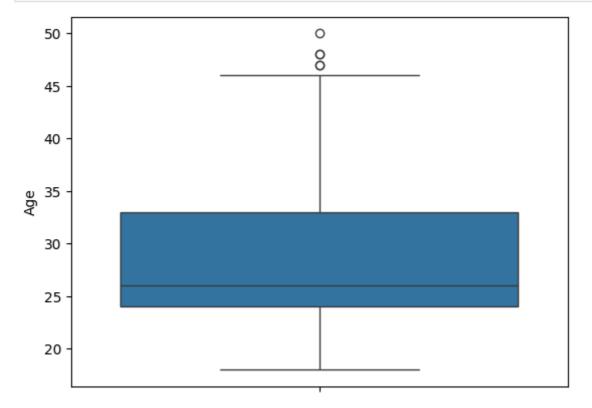
```
In [ ]: percentile_25 = np.percentile(data["Age"],25)
    print(f" 25% of the age is less than {percentile_25}")

percentile_50 = np.percentile(data["Age"],50)
    print(f" 50% of the age is less than {percentile_50}")

percentile_75 = np.percentile(data["Age"],75)
    print(f" 75% of the age is less than {percentile_75}")
```

```
25% of the age is less than 24.0 50% of the age is less than 26.0 75% of the age is less than 33.0
```

```
In [ ]: sns.boxplot(data["Age"])
    plt.show()
```



```
In [ ]: #Range

range_ = (data["Age"].max() - data["Age"].min())
print(f"The range for Age is {range_}")
```

The range for Age is 32

```
In [ ]: #Mean

mean_ = np.mean(data["Age"])
print(f"The mean for Age is {mean_}")
```

The mean for Age is 28.78888888888888

```
In [ ]: #Variance

var_ = np.var(data["Age"])
print(f"The Variance of Age is {var_}")
```

The Variance of Age is 47.94432098765432

```
In [ ]: #Standard Deviation

std_dev_ = np.std(data["Age"])
print(f"The standard deviation of Age is {std_dev_}")
```

The standard deviation of Age is 6.924183777720976

```
In [ ]: # Comparison Between Male and Female Age

male = data[data["Gender"]=="Male"]
female = data[data["Gender"]=="Female"]
```

```
male_miles = male["Miles"]
female_miles = female["Miles"]
```

Male

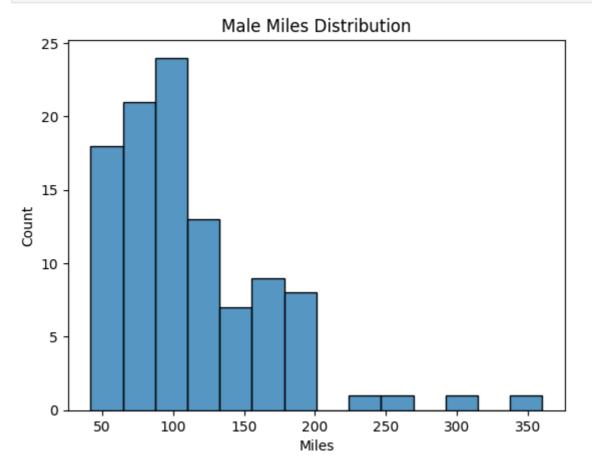
```
In [ ]: male_miles.describe()
Out[ ]: Miles
```

count 104.000000
mean 112.826923
std 54.702451
min 42.000000
25% 85.000000
50% 100.000000
75% 141.000000
max 360.000000

dtype: float64

```
In [ ]: sns.histplot(male_miles)

plt.title("Male Miles Distribution")
   plt.show()
```



```
In [ ]: sns.boxplot(male["Miles"])
```

```
Out[ ]: <Axes: ylabel='Miles'>
```

```
350 - O
300 - O
250 - O
150 - O
100 - O
50 - O
```

```
In [ ]: #Range
    range_ = (male["Miles"].max() - male["Miles"].min())
    print(f"The range for Male Miles is {range_}")
```

The range for Male Miles is 318

```
In [ ]: #Mean

mean_ = np.mean( male["Miles"])
print(f"The mean for Male Miles is {mean_}")
```

The mean for Male Miles is 112.82692307692308

```
In [ ]: #Variance

var_ = np.var(male["Miles"])
print(f"The Variance of Male Miles is {var_}")
```

The Variance of Male Miles is 2963.585428994083

```
In [ ]: #Standard Deviation

std_dev_ = np.std(male["Miles"])
print(f"The standard deviation of Male Miles is {std_dev_}")
```

The standard deviation of Male Miles is 54.438822810509805

Female

```
In [ ]: female_miles.describe()
```

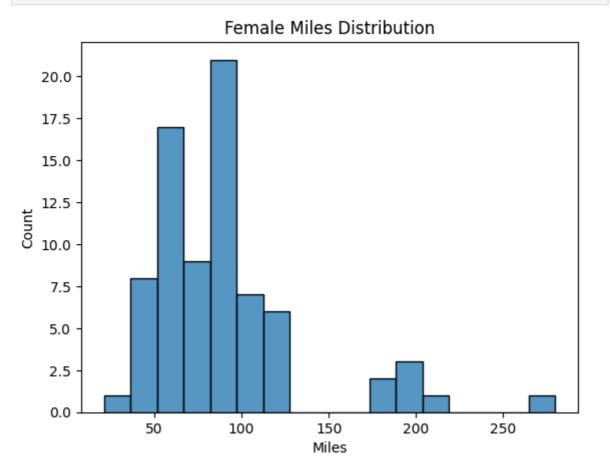
	Miles
count	76.000000
mean	90.013158
std	44.782882
min	21.000000
25%	66.000000
50%	85.000000
75%	100.000000
max	280.000000

Out[]

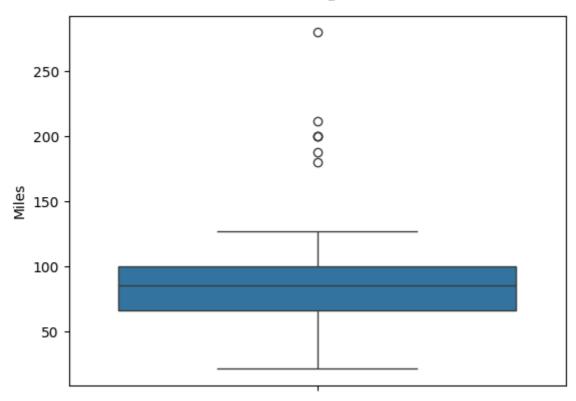
dtype: float64

```
In [ ]: sns.histplot(female_miles)

plt.title("Female Miles Distribution")
   plt.show()
```



```
In [ ]: sns.boxplot(female["Miles"])
Out[ ]: <Axes: ylabel='Miles'>
```



```
In [ ]: #Range

range_ = (female["Miles"].max() - female["Miles"].min())
print(f"The range for Female Miles is {range_}")
```

The range for Female Miles is 259

```
In [ ]: #Mean

mean_ = np.mean( female["Miles"])
print(f"The mean for Female Miles is {mean_}")
```

The mean for Female Miles is 90.01315789473684

```
In [ ]: #Variance

var_ = np.var(female["Miles"])
print(f"The Variance of Female Miles is {var_}")
```

The Variance of Female Miles is 1979.1182479224376

```
In [ ]: #Standard Deviation

std_dev_ = np.std(female["Miles"])
print(f"The standard deviation of Female Miles is {std_dev_}")
```

The standard deviation of Female Miles is 44.487281867095874

Conclusion

Std Dev of Male - 54.43

Std Dev of Female - 44.48

Females tend to be more stable and consistent in their performace compared to Males whereas Males tend to show more variance in walking.

Central Limit Theorem

```
#Analysing the Entire population
In [ ]:
        miles = data["Miles"]
        sns.histplot(miles)
In [ ]:
        <Axes: xlabel='Miles', ylabel='Count'>
Out[]:
            40
            35
            30
            25
            20
            15
            10
             5
             0
                       50
                                                   200
                                                                               350
                                100
                                         150
                                                            250
                                                                      300
                                                 Miles
In [ ]: # Mean of the population
        mu = data["Miles"].mean()
        print(f"Mean of the entire population is {mu}")
        Mean of the entire population is 103.19444444444444
In [ ]: # Std Dev of the population
         sigma = data["Miles"].std()
         print(f"Standard Deviation of the entire population is {sigma}")
        Standard Deviation of the entire population is 51.86360466180931
In [ ]: # Taking a sample of size 15
```

sample_

sample_ = miles.sample(15)

Out[]:		Miles
	16	103
	30	85
	133	85
	60	85
	53	141
	32	47
	88	85
	67	85
	147	80
	125	95
	145	100
	176	200
	73	66
	23	188
	40	85

dtype: int64

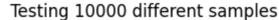
```
In [ ]: # Mean of the sample data
x =np.mean(sample_)
print(f"Mean of the sample data is {x}")
```

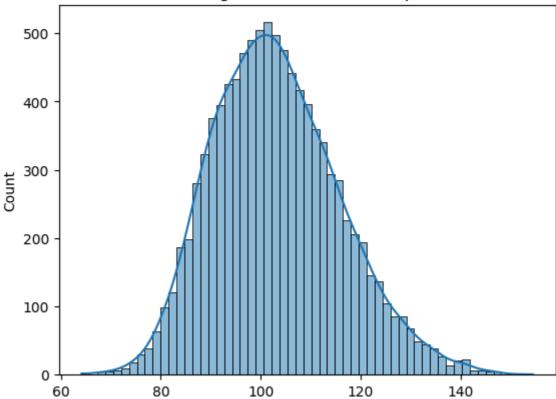
Mean of the sample data is 102.0

Insight

It is clearly seen mean changes everytime the sample is executed as the sample data keeps changing.

```
In [ ]: # Repeating the sampling process for 10000 times
    sample_test = [np.mean(miles.sample(15)) for i in range(10000)]
In [ ]: sns.histplot(sample_test , kde = True)
    plt.title("Testing 10000 different samples ")
    plt.show()
```





Insight:

From the graph its clearly seen that most of the data lies between 98 to 105.

Here the data ranges between 65 to 157.

```
In [ ]: #Computing the Sample Mean
print(f"Mean of the sample tested population is {np.mean(sample_test)}")
```

Mean of the sample tested population is 103.12035333333333

```
In [ ]: #Computing the Sample Standard deviation
    print(f"Standard Deviation of the sample tested population is {np.std(sample_test)}
```

Standard Deviation of the sample tested population is 12.712480690147686

Insight:

The above operation proves that the population mean is almost same as that of the sample mean.

The stand deviation decreases as the size of the sample increases.

Recommendation:

- As the product KP281 is bought the most, more offers can be provided and the other products can be promoted more as the sales for others too can be increased.
- More competitions can be organised so that people get motivated and the average mile covered and the usage gets increased.

• The female users are comparitively less compared to male hence schemes can be introduced to cover the female users too.

- The parterned customers are comparitvely low to the single customers, parterned challenges and competitions can be encouraged.
- Majority customers are youths between 25 to 35, whereas the ages customers are low, hence more awareness regarding the health can be spread among the people of age above 40.
- The average use of treadmill a week is 3, hence more promotion can be done to increase the usage per week which in turn increases the mile coverd and the rating provided, at the end quality of health too gets improved.

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